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**A Novel One Step  
Forecasting Scheme**

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# A NOVEL ONE STEP FORECASTING SCHEME

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## DEDICATION

This text is dedicated to the all compassionate *Creator* of the *Universe*.

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# 1 INTRODUCTION

Forecasting has been a very important cultural and engineering problem for mankind since the dawn of civilization. Detailed astronomical calendars used to be prepared by former civilizations to estimate the duration, time and intensity of seasonal changes such as sunlight, cloud cover, precipitation, etc. Since then, humankind has made great progress in the area of forecasting.

Since time immemorial, Hindu, Arabic, Western and Chinese Astrologers, Mathematicians and Statisticians have been using the Sequence of Primes and its Asymmetry Quantification Functions for forecasting Time Series Sequences, as Prime Sequence is an example of a system whose Asymmetry Entropy is ever increasing.

In this research investigation, keeping in view the limitations of Time Series Analysis, a new and novel Forecasting Scheme For Any Reals Time Series Sequence is Developed by the author. For Error Analysis, the given Sequence along with its Forecasted Value is Reversed and we use author's Forecasting Model to predict the last value of this Reversed Sequence (i.e., which is the First Value of the given Sequence), by deliberately omitting it for prediction purposes. This gives us the Error, if any. In Forecasting Science, the most popular method currently in use is Time Series Analysis. The application of Time Series Analysis method is a very lengthy and circuitous and is also not always infallible.

Some Limitations Of Time Series Analysis Method are:

1. Time Series Analysis method uses Linear Regression Scheme for its ARIMA Models (Auto Regressive Integrated Moving Average Models) and Linear Regression has the following limitations:

- a) Linear Regression Is Limited to Linear Relationships
- b) Linear Regression Only Looks at the Mean of the Dependent Variable
- c) Linear Regression Is Sensitive to Outliers

## A NOVEL ONE STEP FORECASTING SCHEME

d)The Time Series Data Must Be Independent

2.The ACF (Auto Correlation Function) and PACF (Partial Auto Correlation Function) used to check the Stationarity condition of the Time Series is not Holistic in the sense that with increasing lag, the Sets Size for which we are finding Correlation keeps decreasing.

3.The Self Organization aspect of the Time Series Sequence is not exploited in holistictness, i.e., to a closed analytic nature, thereby rendering it unable to forecast well some particular type of economics parameters such as sudden lows and sudden highs like economic crises.

4.The Time Series Forecast Error Concept is very complicated.

## 2 A NOVEL NOTION OF SIMILARITY AND DISSIMILARITY

### 2.1 A Similarity & Dissimilarity Notion

For any real  $a, b$ , we define

$$\text{Similarity}(a,b)=\begin{cases} \frac{\min(a,b)}{\max(a,b)} & \text{if } a,b > 0 \\ 0 & \text{if } ab < 0 \end{cases}$$

$$\text{Dissimilarity}(a,b)=1-\text{Similarity}(a,b)$$

### 3 A NOVEL ONE STEP FORECASTING SCHEME

#### 3.1 Nature of Time Series Sequence To Be Forecasted

For this method, we can consider any Time Series elements with either positive or negative real numbers.

#### 3.2 Causal One Step Future Average Of Two Real Numbers Based On Similarity & Dissimilarity – Method 1

**Note:** Irrespective of the order, Similarity of a positive number and a negative number is to be considered as zero and Dissimilarity of a positive number and a negative number is to be considered as one.

Given any time series or non-time series sequence (of only two numbers only) of the kind

$$S = \{y_1, y_2\}$$

We can now write  $y_{n+1}$  as

$$y_{(n+1)} = y_{(n+1)S} + y_{(n+1)DS} \text{ where}$$

$$y_{(n+1)S} = \left\{ \frac{\Delta_1 y_1 \text{Similarity}(y_1, y_1) \Delta_2 y_2 \text{Similarity}(y_2, y_1) \Delta_3 y_2 \text{Similarity}(y_2, y_2)}{\Delta_4 \text{Similarity}(y_1, y_1) + \Delta_5 \text{Similarity}(y_2, y_1) + \Delta_6 \text{Similarity}(y_2, y_2)} \right\}$$

$$y_{(n+1)S} = \left\{ \frac{\Delta_1 y_1 \text{Dissimilarity}(y_1, y_1) \Delta_2 y_2 \text{Dissimilarity}(y_2, y_1) \Delta_3 y_2 \text{Dissimilarity}(y_2, y_2)}{\Delta_4 \text{Dissimilarity}(y_1, y_1) + \Delta_5 \text{Dissimilarity}(y_2, y_1) + \Delta_6 \text{Dissimilarity}(y_2, y_2)} \right\}$$

where  $\Delta$  takes positive or negative sign as detailed in the following table :

## A NOVEL ONE STEP FORECASTING SCHEME

| <i>Sign of the Series elements</i>     | <i>Inequality Relation between Series Elements</i> | <i><math>COSFF(y_1, y_2)</math> Formula</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| $y_1$ is Positive<br>$y_2$ is Positive | $y_1 < y_2$                                        | Use the aforementioned formula for $=COSFF(y_1, y_2)$ wherein we use the following signs for the deltas. $\left( \frac{+, +, +}{+, +, +} \right)$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| $y_1$ is Negative<br>$y_2$ is Negative | $y_1 > y_2$                                        | $= -COSFF( y_1 ,  y_2 )$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| $y_1$ is Negative<br>$y_2$ is Negative | $y_1 < y_2$                                        | <p>There are <math>2^6=64</math> combinations for the signs of the deltas, i.e., <math>\left( \frac{\Delta_1, \Delta_2, \Delta_3}{\Delta_4, \Delta_5, \Delta_6} \right)</math>.</p> <p>2 stands for two types of signs, positive and negative and 6 stands for 6 empty places which need a sign.</p> <p>The combination of <math>\left( \frac{\Delta_1, \Delta_2, \Delta_3}{\Delta_4, \Delta_5, \Delta_6} \right)</math> that give the minimum Error (see chapter 4) for a special test sequence containing ups and downs, including negative terms is to be used for each of the conditions stated on the left in this table.</p> |
| $y_1$ is Negative<br>$y_2$ is Positive | $y_1 < y_2$                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| $y_1$ is Positive<br>$y_2$ is Negative | $y_1 > y_2$                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| $y_1$ is Positive<br>$y_2$ is Positive | $y_1 > y_2$                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| $y_1$ is Positive<br>$y_2$ is Positive | $y_1 = y_2$                                        | $COSFF(y, y) = y$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| $y_1$ is Negative<br>$y_2$ is Negative | $y_1 = y_2$                                        | $COSFF(y, y) = y$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

**Note:**  $COSFF(y, y) = y$

irrespective of the sign of y.

### 3.3 Causal One Step Future Average Of Two Real Numbers Based On Similarity & Dissimilarity – Method 2

**Note:** Irrespective of the order, Similarity of a positive number and a negative number is to be considered as zero and Dissimilarity of a positive number and a negative number is to be considered as one.

Given any time series or non-time series sequence (of only two numbers only) of the kind

$$S = \{y_1, y_2\}$$

We can now write  $y_{n+1}$  as

$$y_{(n+1)} = y_{(n+1)S} + y_{(n+1)DS} \text{ where}$$

$$\begin{aligned}
 &\text{Case 1: } \left\{ \frac{y_2 \text{Similarity}(y_2, y_1) + y_1 \text{Similarity}(y_1, y_1)}{\text{Similarity}(y_2, y_1) + \text{Similarity}(y_1, y_1)} \right\} \\
 &\text{if } y_1 < y_2 \text{ and } y_1, y_2 > 0 \\
 &\text{Case 2: } \left\{ \frac{y_2 \text{Similarity}(y_2, y_1) + y_1 \text{Similarity}(y_1, y_1)}{\text{Similarity}(y_2, y_1) + \text{Similarity}(y_1, y_1)} \right\} \\
 &\text{if } y_1 < y_2 \text{ and } y_1 < 0, y_2 > 0 \\
 &y_{(n+1)S} = \text{Case 3: } \left\{ \frac{y_2 \text{Similarity}(y_2, y_1) - y_1 \text{Similarity}(y_1, y_1)}{\text{Similarity}(y_2, y_1) + \text{Similarity}(y_1, y_1)} \right\} \\
 &\text{if } y_1 > y_2 \text{ and } y_1, y_2 > 0 \\
 &\text{Case 4: } \left\{ \frac{y_2 \text{Similarity}(y_2, y_1) - y_1 \text{Similarity}(y_1, y_1)}{\text{Similarity}(y_2, y_1) + \text{Similarity}(y_1, y_1)} \right\} \\
 &\text{if } y_1 > y_2 \text{ and } y_1 > 0, y_2 < 0 \\
 &\text{Case 5: } -y_{(n+1)S} \text{ of Case 1 if } y_1 > y_2 \text{ and } y_1, y_2 < 0 \\
 &\text{Case 6: } -y_{(n+1)S} \text{ of Case 3 if } y_1 < y_2 \text{ and } y_1, y_2 < 0
 \end{aligned}$$

$$\begin{aligned}
 &\text{Case 1: } \left\{ \frac{y_2 \text{Dissimilarity}(y_2, y_1) + y_1 \text{Dissimilarity}(y_1, y_1)}{\text{Dissimilarity}(y_2, y_1) + \text{Dissimilarity}(y_1, y_1)} \right\} \\
 &\text{if } y_1 < y_2 \text{ and } y_1, y_2 > 0 \\
 &\text{Case 2: } \left\{ \frac{y_2 \text{Dissimilarity}(y_2, y_1) + y_1 \text{Dissimilarity}(y_1, y_1)}{\text{Dissimilarity}(y_2, y_1) + \text{Dissimilarity}(y_1, y_1)} \right\} \\
 &\text{if } y_1 < y_2 \text{ and } y_1 < 0, y_2 > 0 \\
 &y_{(n+1)DS} = \text{Case 3: } \left\{ \frac{y_2 \text{Dissimilarity}(y_2, y_1) - y_1 \text{Dissimilarity}(y_1, y_1)}{\text{Dissimilarity}(y_2, y_1) + \text{Dissimilarity}(y_1, y_1)} \right\} \\
 &\text{if } y_1 > y_2 \text{ and } y_1, y_2 > 0 \\
 &\text{Case 4: } \left\{ \frac{y_2 \text{Dissimilarity}(y_2, y_1) - y_1 \text{Dissimilarity}(y_1, y_1)}{\text{Dissimilarity}(y_2, y_1) + \text{Dissimilarity}(y_1, y_1)} \right\} \\
 &\text{if } y_1 > y_2 \text{ and } y_1 > 0, y_2 < 0 \\
 &\text{Case 5: } -y_{(n+1)DS} \text{ of Case 1 if } y_1 > y_2 \text{ and } y_1, y_2 < 0 \\
 &\text{Case 6: } -y_{(n+1)DS} \text{ of Case 3 if } y_1 < y_2 \text{ and } y_1, y_2 < 0
 \end{aligned}$$

**Note:**  $\text{COSFF}(y, y) = y$

**irrespective of the sign of  $y$ .**

### 3.4 Novel One Step Forecasting Scheme For A given Time Series of Two Real Numbers

In short, we call the Causal One Step Forecast as in section 3.2, of  $S = \{y_1, y_2\}$  as  $\text{COSFF}(y_1, y_2)$ .

Given any time series or non-time series sequence {here specifically these being the Sequence of Primes, starting from 1} of the kind

$$S = \{y_1, y_2, y_3, \dots, y_{n-1}, y_n\}$$

Here, firstly, we find the COSFF of  $y_1$  and  $y_2$  as  $\text{COSFF}(y_1, y_2)$  as  $y_{3Pre}$ . We then find the COSFF of  $y_{3Pre}$  and  $y_3$  as  $y_{4Pre}$ . We keep repeating this procedure till we get  $y_{nPre}$ . We then find the COSFF of  $y_{nPre}$  and  $y_n$  to get  $y_{n+1}$ , the Causal One Step Future Forecast of the given Time Series.

### 3.5 Causal One Step Future Average Of A Series (With Positive And Negative Real Numbers) Greater Than Two Numbers

Given any time series or non-time series sequence of the kind

$$S = \{y_1, y_2, y_3, \dots, y_{n-1}, y_n\}$$

We can now write  $y_{n+1}$  as

$$y_{n+1} = y_{(n+1)S} + y_{(n+1)DS}$$

where

$$y_{(n+1)S} = \frac{\sum_{i=1}^n y_i \sum \text{Sign}_{(y_i, y_j)} \{ \text{Similarity}(y_i, y_j) \}}{\sum_{i=1}^n \sum_{j=1}^i \{ \text{Similarity}(y_i, y_j) \}}$$

where  $\text{Sign}_{(y_i, y_j)} = \begin{cases} +1 & \text{if } i \leq j \text{ and } y_i < y_j \\ -1 & \text{if } i \leq j \text{ and } y_i > y_j \end{cases}$  and

$$y_{(n+1)DS} = \frac{\sum_{i=1}^n y_i \sum \text{Sign}_{(y_i, y_j)} \{ \text{Dissimilarity}(y_i, y_j) \}}{\sum_{i=1}^n \sum_{j=1}^i \{ \text{Dissimilarity}(y_i, y_j) \}}$$

where  $\text{Sign}_{(y_i, y_j)} = \begin{cases} +1 & \text{if } i \leq j \text{ and } y_i < y_j \\ -1 & \text{if } i \leq j \text{ and } y_i > y_j \end{cases}$

#### Example 1

$$S = \{2, 3, 5, 7, 11, 13, 17, 19\}$$

MATLAB Code

```
clear
clc
S=[2 3 5 7 11 13 17 19]
#S=[19 17 13 11 7 5 3 2]
```

## A NOVEL ONE STEP FORECASTING SCHEME

```
# Similarity & Dissimilarity
function s =Similarity(a,b)
    s = min(a,b)/max(a,b)
end

function ds =Dissimilarity(a,b)
    ds = 1-Similarity(a,b)
end

SS=zeros(length(S),length(S))
for i=1:length(S)
    for j=1:i
        SS(i,j)=Similarity(S(i),S(j))
    end
end
SS

SD=zeros(length(S),length(S))
for i=1:length(S)
    for j=1:i
        SD(i,j)=Dissimilarity(S(i),S(j))
    end
end
SD
```

## A NOVEL ONE STEP FORECASTING SCHEME

```
for i=2:length(S)
    for j=2:i
        if i>=j && S(i)<S(j)
            SS(i,j)=-SS(i,j)
        end
    end
end

SS

for i=2:length(S)
    for j=2:i
        if i>=j && S(i)<S(j)
            SD(i,j)=-SD(i,j)
        end
    end
end

SD

RAS1=ones(length(S),1)
RADS1=ones(length(S),1)
```

## A NOVEL ONE STEP FORECASTING SCHEME

```
for i=1:length(S)

    RAS1(i)=sum(abs(SS(i,:)))

    RADS1(i)=sum(abs(SD(i,:)))

end

RS1=ones(length(S),1)
RDS1=ones(length(S),1)

for i=1:length(S)

    for j=1:i

        RS1(i)=sum(SS(i,1:j))

        RDS1(i)=sum(SD(i,1:j))

    end

end

FRS1=ones(length(S),1)
FRDS1=ones(length(S),1)

for i=1:length(S)

    for j=1:i

        FRS1(i)=sum(SS(i,1:j))

        FRDS1(i)=sum(SD(i,1:j))

    end

end
```

## A NOVEL ONE STEP FORECASTING SCHEME

```
yS1=ones (length (S) ,1)

for i=1:length (S)

    yS1 (i) = S (i) *RS1 (i) /sum (RAS1)

end

FS1=sum (yS1)


yDS1=ones (length (S) ,1)

for i=1:length (S)

yDS1 (i) = S (i) *RDS1 (i) /sum (RADS1)

end

FDS1=sum (yDS1)

FS1

y=FS1+FDS1
```

*Answer: Output*

```
FDS1 = 13.786
```

```
>> FS1
```

```
FS1 = 11.748
```

```
>> y=FS1+FDS1
```

```
y = 25.534
```

*Error Analysis:*

When the following series is used

```
S={25.534, 19, 17, 13, 11, 7, 5, 3}
```

```
FDS1 = -1.7252
```

## A NOVEL ONE STEP FORECASTING SCHEME

```
>> FS1  
FS1 = 2.5332  
  
>> y=FS1+FDS1  
y = 0.8080 in place of 2
```

### *Example 2*

$S = \{19, 17, 13, 11, 7, 5, 3, 2\}$

### MATLAB Code

```
clear  
clc  
S=[19 17 13 11 7 5 3 2]  
# Similarity & Dissimilarity  
function s =Similarity(a,b)  
    s = min(a,b)/max(a,b)  
end  
function ds =Dissimilarity(a,b)  
ds = 1-Similarity(a,b)  
end  
  
SS=zeros(length(S),length(S))  
for i=1:length(S)  
    for j=1:i  
        SS(i,j)=Similarity(S(i),S(j))  
    end
```

## A NOVEL ONE STEP FORECASTING SCHEME

```
end

SS

SD=zeros(length(S),length(S))
for i=1:length(S)
    for j=1:i
        SD(i,j)=Dissimilarity(S(i),S(j))
    end
end
SD

for i=2:length(S)
    for j=2:i
        if i>=j && S(i)<S(j)
            SS(i,j)=-SS(i,j)
        end
    end
end

SS

for i=2:length(S)
    for j=2:i
```

## A NOVEL ONE STEP FORECASTING SCHEME

```
    if i>=j    &&    S(i)<S(j)

        SD(i,j)=-SD(i,j)

    end

end

end

SD

RAS1=ones(length(S),1)
RADS1=ones(length(S),1)
for i=1:length(S)

    RAS1(i)=sum(abs(SS(i,:)))

    RADS1(i)=sum(abs(SD(i,:)))

end

RAS1=ones(length(S),1)
RADS1=ones(length(S),1)
for i=1:length(S)

    for j=1:i

        RS1(i)=sum(SS(i,1:j))

        RDS1(i)=sum(SD(i,1:j))

    end

end

end
```

## A NOVEL ONE STEP FORECASTING SCHEME

```
FRS1=ones (length (S) , 1)
FRDS1=ones (length (S) , 1)
for i=1:length (S)
    for j=1:i
        FRS1 (i)=sum (SS (i, 1:j) )
        FRDS1 (i)=sum (SD (i, 1:j) )
    end
end

yS1=ones (length (S) , 1)
for i=1:length (S)
    yS1 (i)= S (i) *RS1 (i) /sum (RAS1)
end
FS1=sum (yS1)

yDS1=ones (length (S) , 1)
for i=1:length (S)
    yDS1 (i)= S (i) *RDS1 (i) /sum (RADS1)
end

FDS1=sum (yDS1)

FS1
```

## A NOVEL ONE STEP FORECASTING SCHEME

```
y=FS1+FDS1
```

Answer: Output

```
>> FS1
```

```
FS1 = 2.7941
```

```
>> y=FS1+FDS1
```

```
y = 1.2310
```

*Error Analysis:*

When the following series is used

$S=\{1.2310, 2, 3, 5, 7, 11, 13, 17\}$

```
FDS1 = 11.214
```

```
>> FS1
```

```
FS1 = 9.0237
```

```
>> y=FS1+FDS1
```

```
y = 20.237 .
```

*Error Analysis:*

```
Error=(19-20.237/19)*100=-6.5105%
```

### 3.6 Finding All The Sub-Series Of A Given Series Evaluated With All Holistic Variable Periodicities Of Time Instants Computed With Respect To The Causal One Step Future Forecast Position Of The Given Series

Here, we find all the Sub-Series of a given Series evaluated with all holistic variable periodicities of time instants computed from the One Step Extrapolate position of the given Series.

Firstly, we position a dummy point such as 0 in the *Causal One Step Future Forecast* position of the given Series, i.e., at the  $(n+1)^{\text{th}}$  term position if the series contains  $n$  terms.

We then reverse this thusly augmented series. We then use the general term  $y_{pk-(p-1)}$  (where  $p$  goes from 2 onwards integrally till exhaustion\*, and  $k$  goes from 1 onwards integrally till exhaustion\*, to find all the elements of the sub series, by keeping  $p$  fixed and varying  $k$ . This gives us for example for  $p = 2$  and  $k = 1, 2, 3, \dots$ , the sequence with element position numbers 1, 3, 5, 7, .....of the given mother sequence. For  $p = 3$  and  $k = 1, 2, 3, \dots$ , we get a sequence with element position numbers 1, 4, 7, 10, .....of the given mother sequence. For  $p = 4$  and  $k = 1, 2, 3, \dots$ , we get a sequence with element position numbers 1, 5, 9, 13, .....of the given mother sequence. And so on, so forth. We finally reverse these sequences and omit the last 0 term (in the thusly reversed sequences). The thusly gotten series are the Sub-Series of a given series evaluated with all holistic variable periodicities of time instants computed with respect to the Causal One Step Future Forecast Position of the given series.

For Example:

$$\text{If } S = [1 \ 2 \ 3 \ 5 \ 7 \ 11 \ 13 \ 17 \ 19]$$

Then all its sub series are given by

$$S_2 = [2 \ 5 \ 11 \ 17]$$

$$S_3 = [1 \ 5 \ 13]$$

$$S_4 = [2 \ 11]$$

*3.7 Computation Of Causal One Step Future Forecast Of A Given Series Via The Computation Of The Weighted Sum Of Causal One Step Future Forecast Points Of All Its Sub-Series (Of A Given Series Evaluated With All Holistic Variable Periodicities Of Time Instants Computed With Respect To The Causal One Step Future Forecast Position Of The Given Series) Inclusive Of Itself*

Firstly, we consider a given series and compute all its sub-series as detailed already.

We then find the Causal One Step Future Forecasts points of each of the sub series inclusive of the given series.

We then compute weights for each of the Extrapolate points of all the afore-computed series (inclusive of the given series) as

$$w_i = \frac{y_{(n+1)i}}{\sum_{i=1}^z y_{(n+1)i}} \text{ where } y_{(n+1)i} \text{ is the Causal One Step Future Forecast Of the}$$

$i^{th}$  Sub-Series, (inclusive of the given series) and  $z$  being the number of all such Sub-Series, (inclusive of the given series).

We finally computed the Weighted sum (Average) of the Causal One Step Future Forecast points of all its sub-series (of a given series evaluated with all holistic variable periodicities of time instants computed with respect to the one step extrapolate position of the given series) inclusive of itself. We call this as the Holistic Causal One Step Future Forecast point of the given Series.

That is, the ensemble forecast is given by

$$\langle y_{n+1} \rangle = \frac{\sum_{i=1}^z w_i y_{(n+1)i}}{\sum_{i=1}^z w_i}$$

*Example:* For a given Series  $S = \{2, 3, 5, 7, 11, 13, 17, 19\}$  we get its Sub-Series as  $S1 = \{2, 5, 11, 17\}$ ,  $S2 = \{5, 13\}$  and  $S3 = \{2, 11\}$ . The Causal One Step Future Forecasts for the series being

For  $S1 \rightarrow 25.534$

For  $S2 \rightarrow 23.233$

## A NOVEL ONE STEP FORECASTING SCHEME

For S3  $\rightarrow$  22.645

For S2  $\rightarrow$  17.875

And their weighted Average being 22.66925, a value close to 23 !

### *3.8 Improving the Accuracy Of The Result*

*Important Note:* We can note that for the Series S1 of the above Example, we can further improve its Causal One Step Future Forecast by considering the weighted average of all its sub series including itself. This value when used in the weighted average of the series of concern and context here, gives us even better answer !

## 4 ERROR ANALYSIS

### *4.1 Error Analysis*

For the given Time Series of concern, we find the  $(y_{n+1})^{th}$  term using all the previous terms of the given sequence, and then we omit the first term of this sequence, include the newly found forecast, i.e., the  $(y_{n+1})^{th}$  term, and reverse this sequence to find the forecast for the first term. The ratio of (the Difference between the First term and the thusly Forecasted First Term) to the First Term gives us the Efficiency of the Forecast. One minus the Efficiency Of the Forecast gives us the Error of the Forecast.

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[259] [viXra:1708.0025](#) *submitted on 2017-08-02 23:22:10*, (41 unique-IP downloads)

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[215] [viXra:1705.0091](#) submitted on 2017-05-04 06:15:57, (21 unique-IP downloads)

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**TRL Natural Converses Of Any Order Of Any Given Aspect Primality Of Concern. (Universal Engineering Series).** ISSN 1751-3030.

**Authors:** [Ramesh Chandra Bagadi](#)

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**1. Universal Relative Metric That Generates A Field Super-Set To The Fields Generated By Some Number Of Distinct Relative Metrics 2. Universal Function Generation (MP)**

**Authors:** [Ramesh Chandra Bagadi](#)

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**Metrics 2. Universal Function Generation (NT)**

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**Category:** [General Mathematics](#)

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**Universal Natural Memory Embedding -3 (DSAA)**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [Data Structures and Algorithms](#)

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**Universal Natural Memory Embedding -3 (AI)**

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**Category:** [Artificial Intelligence](#)

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**1. Universal Holistic Beauty Primality Tree Of Any Set 2. Universal Growth Of Any Given Set (GM)**

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**Category:** [General Mathematics](#)

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Universal Growth Of Any Given Set (MP)**

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**Category:** [Number Theory](#)

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**Universal Natural Memory Embedding - 2**

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**Universal Natural Memory Embedding - Two**

**Authors:** [Ramesh Chandra Bagadi](#)

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**Universal Natural Memory Embedding - Part Two**

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**Category:** [Number Theory](#)

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**Authors:** [Ramesh Chandra Bagadi](#)

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**Universal Natural Memory Embedding - I**

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**Category:** [Artificial Intelligence](#)

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**The Universal Any Field Generating Irreducible Metric**

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**Category:** [Number Theory](#)

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**The Universal Any Field Generating Metric**

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**The Universal Any Field Generating Metric - I**

**Authors:** [Ramesh Chandra Bagadi](#)

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**Primality Tree Of Any Given Set (New)**

**Authors:** [Ramesh Chandra Bagadi](#)

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**Universal Primality Tree Of Any Given Set (New)**

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2.The Example Of The Same Explaining The Quantization  
Scheme Of Any Universal Natural Manifestation In Holisticness  
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**Authors:** [Ramesh Chandra Bagadi](#)

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Elements Of It**

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**1. Complete Recursive Sub-Sets Found To Exhaustion Of A Set  
2.The Example Of The Same Explaining The Quantization Scheme Of Any Universal Natural Manifestation In Holisticness**  
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[133] [viXra:1606.0056](#) submitted on 2016-06-06 06:37:02, (39 unique-IP downloads)

**Relative Metric And Field Generation Based On The Same With An Example Of The Universal Field {Version Two}**  
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**Universal Sequence Of Primes Of Any Positive Integral Order Space**  
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**Universal Sequence Of Primes**

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**Universal Sequence Of Primes Finding Algorithm {Version I}**

**Authors:** [Ramesh Chandra Bagadi](#)

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**Positve And Negative Time Scaling And Time Portal  
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(Interpolation) Based Forecasting Model For Dynamic State  
Systems With Large Number Of Parameters**

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Based Forecasting Model For Dynamic State Systems With  
Large Number Of Parameters {Version II}**

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**Category:** [General Mathematics](#)

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**Constructing The Primality Tree Of Any Set**

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**Category:** [General Mathematics](#)

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**Category:** [General Mathematics](#)

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**Category:** [General Mathematics](#)

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**Category:** [General Mathematics](#)

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**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

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**On the Theory Of Complete Recursive Sub-Sets Of A Given Set Of Concern. Definition Of A Galaxy**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[67] [viXra:1512.0466](#) *submitted on 2015-12-29 04:58:39*, (41 unique-IP downloads)

**Universal Truth Of Recursive Kind {Version IV}**

**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

[66] [viXra:1512.0464](#) *submitted on 2015-12-28 23:48:57*, (35 unique-IP downloads)

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**Universal Complementary Lower End Prime Pair And Complementary Higher End Prime Pair**

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**THeory Of Evolution {Version Iv OR 4}**

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**Category:** [General Mathematics](#)

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**Schema Of Construction Of Infinity Geodesic Of Any Aspect Of Concern**

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**Category:** [General Mathematics](#)

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**Authors:** [Ramesh Chandra Bagadi](#)

**Category:** [General Mathematics](#)

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**NP Versus P Problem. Schroedinger's Cat In A Box Problem**

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**Category:** [General Mathematics](#)

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**Universal Objective Of The Universe. Universal Beauty Primality. Universal Optimal Life Primality. The Aforementioned Three Aspects As Restrictions For Evolution {Version II of All The Aforementioned}**

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[59] [viXra:1512.0410](#) submitted on 2015-12-24 05:48:20, (23 unique-IP downloads)

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**Universal Recursive Scheme To Generate The Sequence Of  
Primes Of Any Order {Say, Rth} Space**

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Recursion Scheme That Is Vertically {Maximally} Evolving {10-  
3-105}-{6-2-15}-{14-5-385}**

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**Removing And/ Or Minimizing The Redundancies In The Primality Of Any Aspect Of Concern {Version II}**

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**Recommended Human Conduct**

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**REpresentation Of Alphabets By Prime Numbers - Primality Engineering - I**

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**Universal Aspect Recursion Scheme {Version 2}**

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**Universal Aspect Recursion Scheme {Version 1 }**

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**Relativistic Transformations In Standard Prime Metric And/ Or Corresponding Reverse Direction Prime Metric Within Some Selected Domains Of Complementable Bounds**

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**Evolution Through Quantization (Version III)**

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Evolution Scheme Of Any Aspect Set Of Concern {Evolution  
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**Living A Happy Life (Version III)**

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**Universal Recursive Algorithmic Scheme For The Generation Of  
Sequence Of Prime Numbers (Of 2nd Order Space)**

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**Recursion Scheme Of The Sequence Of Primes {Of Second (2nd) Order Space}**

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**Theory Of 'Complementable Bounds' And 'Universe(s) In Parallel' Of Any Sequence Of Primes Of RthOrder Space**

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**The Synonymity Between The Five Elements Of (At) Planet Earth And The Five Digits Of Human Palm**

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**Genuinity Validation Of Any 'Original Work Consciousness Of Concern' And Decorruping 'Corrupted Original Work Consciousness'**

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**The Universal Wave Function Of The Universe (Verbose Form)**

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**Quantized Variable Dimensional Equivalents Of Any Technology Of Concern : An Example Of The (William F. Baker)'s Buttressed Core Design Concept**

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(And/ Or Prime Sequences In Higher Order Spaces) Based  
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Orthogonal Universes In Parallel Of Any Set Of Concern In  
Completeness (Version II)**

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Orthogonal Universes In Parallel Of Any Set Of Concern In  
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**Universal One Step Natural Evolution And/ Or Growth Scheme  
Of Any Set Of Concern And Consequential Evolution  
Quantization Based Recursion Scheme Characteristically  
Representing Such Aforementioned Evolution And/ Or Growth**

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**Universal Natural Recursion Schemes Of Rth Order Space**

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**The Prime Sequence's (Of Higher Order Space's) Generating Algorithm**

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**Category:** [General Mathematics](#)

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**The Prime Sequence Generating Algorithm**

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## ABOUT THE AUTHOR

After serving in the Engineering domain as a Graduate Teaching Assistant, Assistant Professor, Associate Professor & Head during 1999-2019, now, Mr. Ramesh Chandra Bagadi is currently splitting his time as a *Technology Entrepreneur* developing solutions to latest cutting edge technologies of the futuristic kind and as an *Author Of Self Help Books*. He has received his Bachelors of Civil Engineering from Osmania University, India and a Masters each in Engineering Mechanics, Civil & Environmental Engineering, Physics from the University Of Wisconsin-Madison, USA. He is also a Registered Chartered Engineer and Fellow of The Institution Of Engineers, India.

*Notes*